

# AUTOMOTIVE NEWS



## WONDERS OF AUTO WORLD IN GRAND DISPLAY SATURDAY

Many New Features to Mark 20th Annual Passenger and Truck Shows in New York.

New York is accustomed to superlative things, but even cosmopolitan New York will be amazed, next Saturday afternoon, when it gets its first look at the passenger car division of the twentieth annual National Automobile Show, the greatest ever held, spread out in gleaming, colorful ranks on four full floors of Grand Central Palace.

Smartly artistic decorations will give the big show a fitting setting for the inspection by hundreds of New Yorkers and thousands of out-of-town visitors while simultaneously in the Eighth Coast Artillery Armory, at Jerome avenue, Kingsbridge road and 194th street, the biggest motor truck show in automotive history, throws open to the public the doors of the country's largest armory displaying 180,000 square feet of concrete floor covered with motor trucks and accessories.

Either one of these two shows which celebrate the twentieth anniversary of the industry—the truck show of seventy-odd makes, or the passenger display of eighty-four makes—would by itself be larger than any preceding show; and in addition 236 markers of accessories will exhibit at both shows.

Besides new and graceful originalities of body and chassis design, will be seen at the Grand Central Palace, for the first time many new mechanical improvements and cunning efficiency devices perfected by automotive engineers to save the motoring public's time and money, and to make motoring a still greater convenience and pleasure. These improvements have been achieved in spite of the immense post-war demand for all makes of automobiles. The result is that there will be a type of car for every individual taste and pocketbook.

**Small Changes Attract.**  
In looking over the new productions one is impressed with the great attention to the smaller items of equipment, to such things as doors and door handles, fenders, instruments and fendering. Changes of this sort are not costly and are made much more easily than one involving the making of new expensive die. In the design of the car a semblance of newness the body has been attacked and there is a bewildering array of "conceptions."

For the most part the designers have adhered to the basic lines shown last year in such numbers. This body has a high hood, usually with an angle at each end, the line of the angle meeting the top edge of the body. Hoods have more louvers, windshield supports are more substantial and shields are much in evidence and concern has taken up small built-in side pieces attached to the windshield. This form will undoubtedly be the standard equipment in a few years.

The Palace will surpass its own record as to pleasing novelties of decoration. Garland of smilax and greens will bring the scheme into harmony with the holiday feeling and suggest the approach of spring. At the entrance the incinerator's first glimpse of the exterior will be through a frame of bay trees and floral masses.

**Place Splendidly Decorated.**  
Each exhibitor's display will be enclosed by white panels capped with brown. The big windows that light each of the four floors are furnished with red-tinted glass. The "pleasure resistance" of setting will be the tapestry panels, set at regular intervals along the walls. They depict fanciful scenes of English country life, the old English manor, the castle, the bear coats-of-arms, and at the top is imprinted the name of the nearest exhibitor.

The makes of cars exhibited here: Hudson, Chrysler, Packard, Buick, American Beauty, Anderson, Apperson, Auburn, Biddle, Briscoe, Buick, Cadillac, Case, Chalmers, Chandler, Chevrolet, Cole, Columbia, Comet, Commonwealth, Daimler-Benz, DeSoto, Detroit-Electric, Dixie-Flyer, Dodge Brothers, Dorris, Dorr, Elcar, Elgin, Fiat, Ferguson, Franklin, Grant, Haynes, Holtzer, Hudson, Hummobile, Jackson, Jordan, King, Kissel, Kar, Kline, Lexington, Liberty, McFarlan, Marmon, Marmon, Maxwell, Mercer, Metz, Milburn Electric, Mitchell, R. & V. Monitor, Moon, Nash, National, Oakland, Oldsmobile, Pontiac, Overton, Owen-Magnetic, Packard, Paige, Patterson, Peerless, Pierce-Arrow, Premier, Roamer, Saxon, Savers, Scripps-Booth, Standard, Stanley, Stearns-Knight, Stephens, Stutz, Vega-Duryea, Studebaker, Stutz, Velle, Westcott, Willys-Knight, Winton.

E. A. Miles is manager of the National Automobile Shows; this show being given under the auspices of the National Automobile Chamber of Commerce. The committee in charge of the passenger model display is as follows: John N. Willys, Willys-Cord, Packard, chairman; H. G. Root, Westcott Motor Car Company; Harry M. Jewett, Paige-Detroit Motor Car Company.

**Has Social Aspect.**  
Show week will be sprinkled generously with social affairs and important business conferences between automobile men and members and representatives of the automotive industry, with the automotive industry. On Monday, January 5, the Rubber Association of America will dine at the Waldorf Hotel. The annual dinner of the National Automobile Chamber of Commerce will be given on Tuesday, January 6, at 7 o'clock, at Hotel Commodore.

Wednesday, January 7, will be a busy day with a luncheon meeting of the National Automobile Show Managers' Association at 12:30; a luncheon of the professional section of the Society of Automotive Engineers at 1 o'clock; the twelfth annual banquet of the Motor and Accessory Manufacturers' Association in the grand ballroom of the Hotel Commodore at 7:30; and carnival night of the Society of Automotive Engineers at 9 o'clock at Hotel Astor. The Society of Automotive Engineers will have a luncheon on Thursday, January 8, at 1 o'clock and its annual banquet at Hotel Astor that night at 7.

These organizations will also hold numerous business and technical sessions during Automobile Show Week.

The truck display floor at the Eighth Coast Artillery Armory is so large that workmen who laid the concrete floor for the show rode from one part of the armory to the other on bicycles.

Transportation problems equally vital to farmer, business man, truck owner and operator will be discussed and solutions suggested at the Highway Transport Conference of ne-

# About Your Automobile

By JULIAN CHASE

Formerly Editor of "Motor," "Horseless Age," etc.

How many miles do you get for a gallon of gasoline? If you fill up the tank, run 100 or 200 miles with only a couple of stops, and then figure it out, you get one result. If you measure the quantity used in a month or a week and divide it into the number of miles run up on the total register of your odometer, you get a result that is quite different. Nine times out of ten, after the latter kind of test, your supposedly fine car

longer than you should with the choke valve closed or too far over on the side marked "gas" or "cold" or "start" or something of the kind? Of course, with the kind of stuff we get for gasoline today, it is necessary to have a good rich mixture to start on. But when he begins to turn over in good shape, it's time to swing that little lever or thumb button on the cowl over to the running position and to get it just as far over to the "air," "warm" or "run" side as is possible, without causing spitting and back firing, and keep it there. If you don't,

in order that a sufficient quantity will be drawn in through the carburetor to form an explosive mixture. Condensation takes place as the gas passes from the mixing chamber of the carburetor to the combustion chamber of the engine with the result that an over-rich mixture must be formed primarily. It's like running with the choke valve closed, and it has the same effect on the miles per gallon average.

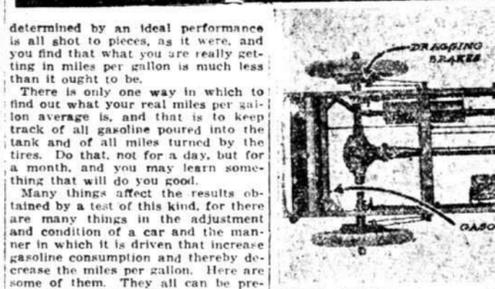
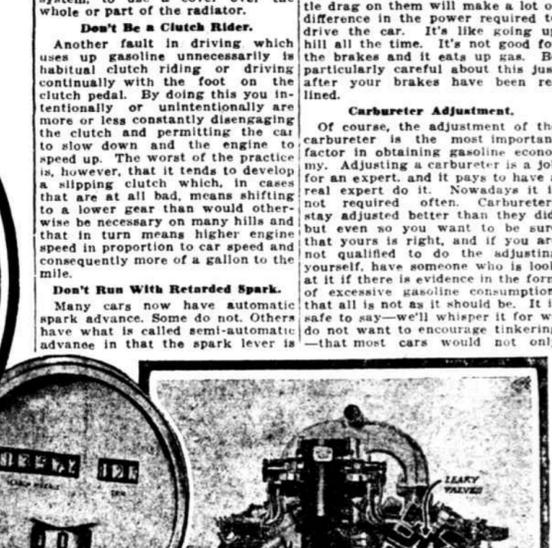
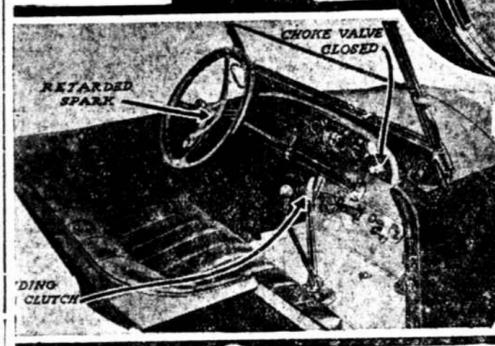
**Don't Be a Clutch Rider.**  
Another fault in driving which uses up gasoline unnecessarily is habitual clutch riding or driving continually with the foot on the clutch pedal. By doing this you intentionally or unintentionally are more or less constantly disengaging the clutch and permitting the car to slow down and the engine to speed up. The worst of the practice is, however, that it tends to develop a slipping clutch which, in cases that are at all bad, means shifting to a lower gear than would otherwise be necessary on many hills and that in turn means higher engine speed in proportion to car speed and consequently more of a gallon to the mile.

**Don't Run With Retarded Spark.**  
Many cars now have automatic spark advance. Some do not. Others have what is called semi-automatic advance in that the spark lever is

stem. You are more likely to do this if you make the adjustment when the engine is cold. When this happens the valves affected do not seat properly and compression is lost. A proper adjustment will enable them to seat as they should and save gasoline.

**Do Your Brakes Drag?**  
Do you throw off the emergency completely after each stop? No doubt you think you do, but it's a good idea to give the lever an extra push once in a while to be sure that the brakes are entirely free. A little drag on them will make a lot of difference in the power required to drive the car. It's like going up hill all the time. It's not good for the brakes and it eats up gas. Be particularly careful about this just after your brakes have been re-lined.

**Carburetor Adjustment.**  
Of course, the adjustment of the carburetor is the most important factor in obtaining gasoline economy. Adjusting a carburetor is a job for an expert, and it pays to have a real expert do it. Nowadays it is not required often. Carburetors stay adjusted better than they did, but even so you want to be sure that yours is right, and if you are not qualified to do the adjusting yourself, have someone who is look at it if there is evidence in the form of excessive gasoline consumption, that all is not as it should be. It is safe to say—well, whisper it for we do not want to encourage tinkering—that most cars would not only



determined by an ideal performance is all shot to pieces, as it were, and you find that what you are really getting in miles per gallon is much less than it ought to be.

**Spred Is Expensive.**  
One thing is high speed. Fast running, that is, traveling at thirty miles or more into the air, is a very expensive thing. From the ceiling, 110 feet high, to within a few feet of the floor the decoration will be in yellow and green, made up of 20,000 yards of bunting, weighing 17,500 pounds. The wide strips of yellow and green, spring's colors, will give the show a cheery atmosphere that will dispel even the gloom of a gray day. Of the 180,000 square feet of floor 120,000 feet will be covered with linoleum.

**Close the Choke Valve.**  
As we have started with the gasoline consumers of car operation, let's take another one. Do you ever run

stand a finer adjustment of their carburetors, but would run much better for it. Pshaw! how some of the many bum mixtures that we are up to and overtake in a day's journey do smell! That's good gasoline going to waste.

**Look After the Leaks.**  
And here's something so stupidly simple and so simply stupid that you never thought of it in this connection. How can you get the most miles out of the gasoline you buy if you let a lot of it drip away through leaks in the piping and at the carburetor? Some cars are run only on Saturdays and Sundays. During the rest of the week a good deal of the gasoline in their tanks drips out onto the garage floor. That which is lost costs as much as that which gets to the engine, but it doesn't get you anywhere.

**Faults in the Car Itself.**  
So much for driving and car operation. Let's look now at the condition of the car itself as it affects the possible miles that are poured into it compared with the actual miles got out.

**Piston Rings, Valves and Lost Compression.**  
Leaky piston rings and leaky valves mean lost compression and consequently reduced power with increased gasoline consumption for the same results in car speed and hill climbing. If, with good compression, your car will take a certain grade on high at twenty miles per hour at half throttle and with poor compression she needs full throttle at the same grade, the gasoline bill goes up while the mileage remains the same. Good rings and tight valves pay for themselves in miles per gallon of gasoline.

**Cinders Improve Garage Floor.**  
The average car owner may not know that a layer of cinders six inches thick makes a very satisfactory floor for the home garage. The cinders should be thoroughly tamped down, a hose being used to wet them down during the operation. This floor absorbs grease, oil or gasoline that may leak out of the mechanism and it is, moreover, practically indestructible.

## BUREAU CHIEF'S CAREER VARIED

L. M. Estabrook Advanced From Farm Laborer to Present Position.

Burleson Shows Value Of Parcel Post Trucks

"That the motor truck rendered invaluable service for municipalities during the recent coal strike" was only another example of the unusual dependability, economy and adaptability of the motor truck in meeting unusual transportation demands," says G. A. Kissel, president of the Kissel Motor Car Co.

"In the Middle West quite a few of our distributors wrote us that the motor truck took the place of the railroad locomotives in helping move freight cars loaded with coal from nearby mines and shipping points to the yards of the local electric light, water and pumping stations, to provide heat to the municipal and industrial buildings.

"I, myself, noticed in the daily papers at the time, how when different switchmen's unions refused to move freight cars loaded with coal mined by volunteers, motor trucks stepped into the breach and kept up the supply of the precious fuel at a time when no other motive power was available.

"If these motor trucks had not proven equal to the job, many additional hundreds of thousands of gallons, as well as scores of industries would have had to shut down.

"Owing to the fact that the motor truck did not employ coal as a source of its motive power, made their operation economical and efficient and did not use up fuel that could have been used in any way by industries or municipal buildings.

"Mr. Burleson has not only urged Congress to provide the necessary equipment for such motor parcels post expansion, but claims that they will, in addition, show a profit. Nine such routes between Washington and Philadelphia have been established during 1919.

"Without a doubt this recognition by a prominent government official is a result of the adaptability and the way the motor truck has helped the government meet the transportation requirements at a time when the country's transportation equipment proved unequal to the demands made upon it."

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## NEW YEAR TO SHATTER RECORD IN AUTOMOBILE PRODUCTION

May Reach 2,000,000 Passenger Cars and 300,000 Trucks—War Lessons to Aid.

The passing of 1919 will have recorded more changes in the automotive field vitally affecting its growth, its financial status and the quality of its products than has been experienced at any time since the beginning of the industry.

Just before the close of the war, automobile manufacturing was fast approaching a standstill. The signing of the armistice, November 11, 1918, put the brakes on what would soon have been a complete shutdown of every plant producing automobiles. With the gradual completion and elimination of war contracts in the various automobile plants, attention was again turned to producing cars which were discontinued, or on which production had been curtailed during the war period. At the same time practically all manufacturers were planning on new models to offer the public for the year 1920.

The low production early in the year 1919, with the rapidly pyramiding demand for cars, on the part of the public, placed a tremendous load on the manufacturers. They not only had to grow their plants, while they were at the same time finishing up war contracts. Remarkable strides have been made by the motor and accessory manufacturers in helping the car and truck manufacturers to get back into business.

**Auto for Every Fifteen Persons.**  
In the year 1920 there will probably be an automobile for about every fifteen persons in the United States. There will be nearly eight million power driven vehicles, including both passenger and commercial cars, in actual use by the dawn of the New Year. It is likely that the production of passenger cars for 1920 will near the 2,000,000 mark, while the output of commercial vehicles will be about 300,000.

One of the marked effects of the war has been to standardize automotive power and transmission units. More consideration has been given the designing of motors to handle low grade fuels than ever before. On the whole, the quality of cars and trucks for 1920 will be much superior to those produced in the past. While it is true that the prices will be higher, this is not due to increased cost of material alone.

Better parts of more costly design will be used throughout. The tremendous demand for automobiles, following a shutdown of the industry during the war, showed that the unit manufacturer is really the greatest business ally of the car buyer. Had the majority of car manufacturers been producing their own units, instead of purchasing them from highly specialized organizations, car production would today have been at least a year behind. Severe losses would have been sustained by many car and truck producers were it not for the balancing effect that the motor and accessory manufacturers were able to give them in the way of changing schedules, both increasing and decreasing, according to the rapidly changing situation.

Due to the fact that the motor and accessory manufacturers had a number of outlets for their parts, they were able to lend the greatest cooperation to the automobile producer—cooperation which was very useful and which vitally affected the continuance of many organizations. The automobile industry has learned that it must figure further ahead for its

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## Wishing You A Happy and Prosperous New Year

The Washington-Cadillac Company

President